

WHAT IS CLAIMED IS:

SUP X2

1. A composition useful in treating a condition of mammalian tissue, said composition being comprised of a peptide or biological equivalent thereof, selected from the group consisting of SEQ ID 1, SEQ ID 2, SEQ ID 3, SEQ ID 4, SEQ ID 5, SEQ ID 6, SEQ ID 7, SEQ ID 8, SEQ ID 9, SEQ ID 10, SEQ ID 11, SEQ ID 12, SEQ ID 13, SEQ ID 14, SEQ ID 15, SEQ ID 16, SEQ ID 20, SEQ ID 21, SEQ ID 22, SEQ ID 24, SEQ ID 25, SEQ ID 26, SEQ ID 27, SEQ ID 28, SEQ ID 29, SEQ ID 30, SEQ ID 31, SEQ ID 32, SEQ ID 33, SEQ ID 34, SEQ ID 35, SEQ ID 36, SEQ ID 37, SEQ ID 38, SEQ ID 39, SEQ ID 40, SEQ ID 41, SEQ ID 42, SEQ ID 43, SEQ ID 44, SEQ ID 45, SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54.
2. The composition of claim 1, wherein said peptide is at a therapeutically effective concentration in a range of about .0002% to about 90%.
3. The composition of claim 1, wherein said composition is a cosmetic preparation.
4. The composition of claim 3, wherein said cosmetic preparation is formulated as a topical preparation to be applied to a patient's skin.
5. The composition of claim 4, wherein said topical preparation is selected from the group consisting of an emulsion, lotion, spray, aerosol, powder, ointment, cream and foam.
6. The composition of claim 1, wherein the mammalian tissue being treated is a blood vessel.
7. The composition of claim 1, wherein the composition is useful for treating a condition selected from the group consisting of hypertension, coronary heart disease, arteriosclerosis, angina, coronary thrombosis, chronic obstructive pulmonary disease, and restenosis post angioplasty.

8. The composition of claim 1, wherein said peptide is useful in improving tissue turgor.

9. The composition of claim 1, wherein said composition further includes a pharmaceutical delivery system.

5 10. The composition of claim 9, wherein said pharmaceutical delivery system is selected from the group consisting of a topical delivery system and a subcutaneous delivery system.

10 11. The composition of claim 10, wherein said topical delivery system is selected from the group consisting of a cosmetic preparation, powder, emulsion, lotion, spray, ointment, aerosol, cream and foam.

15 12. A peptide having a formula of R₁-Valyl-Valyl-Prolyl-R₂, wherein R₁ is an amino portion modified to include an amine, amide, or amino acid sequence having 1-10 amino acids and R₂ is a carboxy portion modified to include an amide, ester, or carboxy terminus sequence having 1-10 amino acids.

Sub A37
13. The peptide of claim 12, wherein the peptide is selected from the group consisting of SEQ ID 15, SEQ ID 42, SEQ ID 43, SEQ ID 44, SEQ ID 45, SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54

20 14. The peptide of claim 12, wherein R₂ is selected from the group consisting of a glutamine residue and modified glutamine residue.

25 15. A method of enhancing tissue elasticity, said method being comprised of administering a therapeutically effective concentration of a peptide selected from the group consisting of SEQ ID 1, SEQ ID 2, SEQ ID 3, SEQ ID 4, SEQ ID 5, SEQ ID 6, SEQ ID 7, SEQ ID 8, SEQ ID 9, SEQ ID 10, SEQ ID 11, SEQ ID 12, SEQ ID 13, SEQ ID 14, SEQ ID 15, SEQ ID 16, SEQ ID 20, SEQ ID 21, SEQ ID 22, SEQ ID 24, SEQ ID 25, SEQ ID 26, SEQ ID 27, SEQ ID 28, SEQ ID 29, SEQ ID 30, SEQ ID 31, SEQ ID 32, SEQ ID 33, SEQ ID 34, SEQ ID 35, SEQ ID 36, SEQ ID 37, SEQ ID 38, SEQ ID 39, SEQ ID 40, SEQ ID 41, SEQ ID 42,

SEQ ID 43, SEQ ID 44, SEQ ID 45, SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54.

16. The method of claim 15, wherein said peptide is selected from the group consisting of SEQ ID 15, SEQ ID 42, SEQ ID 43, SEQ ID 44, SEQ ID 45, 5 SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54.

17. The method of claim 15, wherein the tissue is selected from the group consisting of a blood vessel, lung tissue, and skin.

18. The method of claim 15, wherein the step of 10 administering the peptide is repeated over a predetermined time period.

19. A pharmaceutical composition comprised of a peptide or 15 biological equivalent thereof, selected from the group consisting of SEQ ID 1, SEQ ID 2, SEQ ID 3, SEQ ID 4, SEQ ID 5, SEQ ID 6, SEQ ID 7, SEQ ID 8, SEQ ID 9, SEQ ID 10, SEQ ID 11, SEQ ID 12, SEQ ID 13, SEQ ID 14, SEQ ID 15, SEQ ID 16, SEQ ID 20, SEQ ID 21, SEQ ID 22, SEQ ID 24, SEQ ID 25, SEQ ID 26, SEQ ID 27, 20 SEQ ID 28, SEQ ID 29, SEQ ID 30, SEQ ID 31, SEQ ID 32, SEQ ID 33, SEQ ID 34, SEQ ID 35, SEQ ID 36, SEQ ID 37, SEQ ID 38, SEQ ID 39, SEQ ID 40, SEQ ID 41, SEQ ID 42, SEQ ID 43, SEQ ID 44, SEQ ID 45, SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54.

20. A cosmetic preparation comprised of a peptide or 25 biological equivalent thereof, selected from the group consisting of SEQ ID 1, SEQ ID 2, SEQ ID 3, SEQ ID 4, SEQ ID 5, SEQ ID 6, SEQ ID 7, SEQ ID 8, SEQ ID 9, SEQ ID 10, SEQ ID 11, SEQ ID 12, SEQ ID 13, SEQ ID 14, SEQ ID 15, SEQ ID 16, SEQ ID 20, SEQ ID 21, SEQ ID 22, SEQ ID 24, SEQ ID 25, SEQ ID 26, SEQ ID 27, SEQ ID 28, SEQ ID 29, SEQ ID 30, SEQ ID 31, SEQ ID 32, SEQ ID 33, SEQ ID 34, SEQ ID 35, SEQ ID 36, SEQ ID 37, SEQ ID 38, SEQ ID 39, SEQ ID 40, SEQ ID 41, SEQ ID 42, SEQ ID 43, SEQ ID 44, SEQ ID 45, SEQ ID 46, SEQ ID 47, SEQ ID 48, SEQ ID 49, SEQ ID 50, SEQ ID 51, SEQ ID 52, SEQ ID 53, and SEQ ID 54.

Sub A4 20

Ans AS